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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
Group Art Unit Unknown

In re

Patent Application of

Andrew Bruce Holmes, et al.

Application No. 10/593,212

Confirmation No.: 7446

Filed: September 18, 2006

Examiner: Unknown

"METHODS OF AMINATION"

INFORMATION DISCLOSURE STATEMENT
PURSUANT TO 37 C.F.R. § 1.97(b)

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
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Sir:

The Examiner's attention is directed to the references which are listed on the attached Form PTO/SB/08A and PTO/SB/08B and copies of non-U.S. patent references are attached.

Citation of these references is respectfully requested.

No concession is made that these documents are prior art, and Applicant expressly reserves the right to antedate the documents as may be appropriate.

Respectfully submitted,

Charlene L. Yager
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File No. 065435-9084 US00
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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) Sheet 1 of 1		Complete if Known		
		Application Number	10/593,212	
		Filing Date	September 18, 2006	
		First named Inventor	Andrew Bruce Holmes	
		Group Art Unit	Unknown	
		Examiner name	Unknown	
		Attorney Docket Number	065435-9084 US00	
U.S. Patent Documents				
Examiner Initials		U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
		5,576,460	Buchwald et al.	11/19/1996
		6,156,933	Poliakoff et al.	12/5/2000

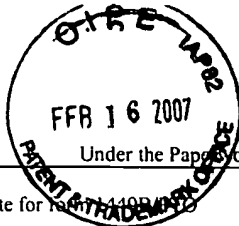
FOREIGN PATENT DOCUMENTS						
Examiner Initials	Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract
	EP	0652202	Research Development Corporation of Japan	5/10/1995		
	WO	94/06738	Unichema Chemie BV et al.	3/31/1994		
	WO	94/20444	Valtion Teknillinen et al.	9/15/1994		
	WO	95/22591	Degussa et al.	8/24/1995		
	WO	96/01304	Paul Moeller Ledelses Og Ingen	1/18/1996		
	WO	02/051958	Johnson Matthey PCL et al.	7/4/2002		
	WO	02/28983	Cambridge Display Technology et al.	4/11/2002		
	WO	02/45868	University of Cambridge Technology et al.	6/13/2002		
	WO	03/009936	Holmes et al.	2/6/2003		
	WO	03/018531	Polychip Pharmaceuticals Pty Ltd. et al.	3/6/2003		

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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				Group Art Unit	Unknown
				Examiner Name	Unknown
Sheet	1	of	5	Attorney Docket Number	065435-9084 US00

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
		AALTEN, H.L. et al., "The copper catalysed reaction of sodium methoxide with aryl bromides. A mechanistic study leading to a facile synthesis of anisole derivatives," Tetrahedron (1989) 45(17):5565-5578
		BAE, Y.C. et al., "Tailoring transparency of imageable fluoropolymers at 157nm by incorporation of hexafluoroisopropyl alcohol to photoresist backbones," Chem. Mater. (2002) 14:1306-1313
		BAIKER, A., "Supercritical fluids in heterogeneous catalysis," Chem. Rev. (1999) 99:453-473
		CARROLL, M.A. et al., "Palladium-catalysed carbon-carbon bond formation in supercritical carbon dioxide," Chem. Commun. (1998) 1395-1396
		COOPER, A.I., "Recent developments in materials synthesis and processing using supercritical CO ₂ ," Adv. Mater. (2001) 13:1111-1114
		DEAGOSTINO, A. et al., "Palladium-catalyzed heck reaction on 1-alkoxy-1,3-dienes: a regioselective γ -arylation of α,β -unsaturated carbonyl compounds," Org. Lett. (2003) 5(21):3815-3817
		EARLY, T.R. et al., "Palladium-catalysed cross-coupling reactions in supercritical carbon dioxide," Chem. Commun. (2001) 1966-1967
		FURSTNER, A. et al., "Olefin metathesis in supercritical carbon dioxide," J. Am. Chem. Soc. (2001) 123:9000-9006
		GORDON, R.S. et al., "Palladium-mediated cross-coupling reactions with supported reagents in supercritical carbon dioxide," Chem. Commun. (2002) 640-641

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				Examiner Name	Unknown
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		HALLS, J.J.M. et al., "Efficient photodiodes from interpenetrating polymer networks," Nature (1995) 376:498-500
		HARTWIG, J.F., "Transition metal catalyzed synthesis of arylamines and aryl ethers from aryl halides and triflates: scope and mechanism," Angew. Chem. Int. Ed. (1998) 37:2046-2067
		HOGGAN, E.N. et al., "Spin coating and photolithography using liquid and supercritical carbon dioxide," Polym. Prep. Am. Chem. Soc. Div. PMSE (1999) 81:218
		JESSOP, P.G. et al., Chemical Synthesis Using Supercritical Fluids, Wiley-VCH: Weinheim (1999)
		KISSLING, R.M. et al., "Recent developments in the use of N-heterocyclic carbenes: applications in catalysis," (2003) Chapter 27, 323-341
		KITANI, A. et al., "'Polyaniline': formation reaction and structure," Synthetic Metals (1987) 18:341-346
		KUWABARA, Y. et al., "Thermally stable multilayered organic electroluminescent devices using novel starburst molecules, 4,4',4"-tri(N-carbazolyl)triphenylamine (TCTA) and 4,4',4"-Tris(3-methylphenylphenyl-amino)triphenylamine (m-MTDATA), as hole-transport materials," Adv. Mater. (1994) 6(9):677
		LEY, S.V. et al., "Polyurea-encapsulated palladium(II) acetate: a robust and recyclable catalyst for use in conventional and supercritical media," Chem. Commun. (2002) 1134-1135
		LINDLEY, J., "Copper assisted nucleophilic substitution of aryl halogen," Tetrahedron (1984) 40(9):1433-1456

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		LU, F.-L. et al., "Phenyl-capped octaaniline (COA): an excellent model for polyaniline," J. Am. Chem. Soc. (1986) 108:8311-8313
		MACDIARMID, A.G. et al., "Polyaniline: a new concept in conducting polymers," Synthetic Metals (1987) 18:285-290
		MACDIARMID, A.G. et al., "Polyanilines: a novel class of conducting polymers," Faraday Discuss. Chem. Soc. (1989) 88:317-332
		MACDIARMID, A.G. et al., "The polyanilines: potential technology based on new chemistry and new properties," Science and Applications of Conducting Polymers; Hilger: New York (1991) 117-127
		OAKES, R.S. et al., "The use of supercritical fluids in synthetic organic chemistry," J. Chem. Soc. Perkin Trans. (2001) 1:917-941
		PAINE, A.J., "Mechanisms and models for copper mediated nucleophilic aromatic substitution. 2. A single catalytic species from three different oxidation states of copper in an Ullmann synthesis of triaryl amines," J. Am. Chem. Soc. (1987) 109:1496-1502
		RAY, A. et al., "Polyaniline: doping, structure and derivatives," Synthetic Metals. (1989) 29:E141-E150
		SHEZAD, N. et al., "Pd-catalysed coupling reactions in supercritical carbon dioxide and under solventless conditions," Green Chem. (2002) 4:64-67
		SHEZAD, N. et al., "Pd-catalyzed coupling reactions in supercritical carbon dioxide," Chemical Industries (Dekker) (2001) 82:459-464

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		SMITH, C.J. et al., "Palladium catalysed aryl amination reactions in supercritical carbon dioxide," Org. Biomol. Chem. (2005) 3:3767-3781
		SMITH, C.J. et al., "Palladium catalyzed cross-coupling reactions of silylamines," Chem. Commun. (2004) 1976-1977
		STOLKA, M. et al., "Hole transport in solid solutions of a diamine in polycarbonate," J. Phys. Chem. (1984) 88:4707-4714
		STRUKEIJ, M. et al., "Organic multilayer white light emitting diodes," J. Am. Chem. Soc. (1996) 118:1213-1214
		SUNDARARAJAN, N. et al., "Supercritical CO2 processing for submicron imaging of fluoropolymers," Chem. Mater. (2000) 12:41-48
		TAMAO, K. et al., "Introduction to cross-coupling reactions," Topics in Curr. Chem. (2002) 219:1-9
		UETA, E. et al., "Glass formation and phase transition of novel π -electron starburst molecules, 1,3,5-tris(phenyl-2-thienylamino)benzene and 1,3,5-tris(phenyl-3-thienylamino)benzene," Chem. Lett. (1994) 2397-2400
		VACHON, D. et al., "Polyaniline is poly-para-phenyleneamineimine: proof of structure by synthesis," Synthetic Metals (1987) 18:297-302
		WEINGARTEN, H., "Ullmann condensation," J. Org. Chem. (1964) 29:975-977

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		WELLS, S.L. et al., "CO2 technology platform: an important tool for environmental problem solving," Angew. Chem. Int. Ed. (2001) 40:518-527
		WOLFE, J.P. et al., "Rational development of practical catalysts for aromatic carbon - nitrogen bond formation," Accounts of Chem. Res. (1998) 31(12):805-818
		YANG, B.H. et al., "Palladium-catalyzed amination of aryl halides and sulfonates," J. Organometallic Chem. (1999) 576:125-146

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